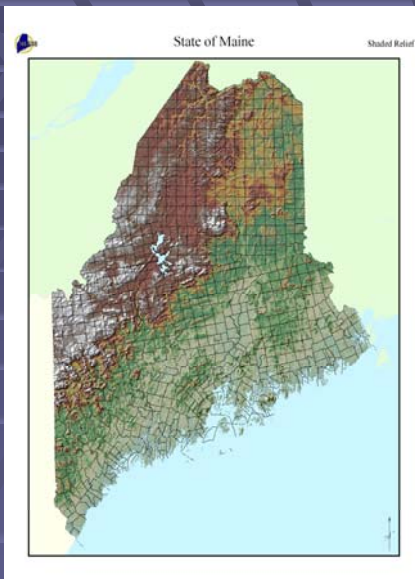


Maine County GIS Study

Status and Next Steps

MCCA Annual Meeting
September 17, 2005

Dan Walters, Maine Office of GIS
Bob Faunce, Maine GeoLibrary Board
Rich Sutton / AppGeo



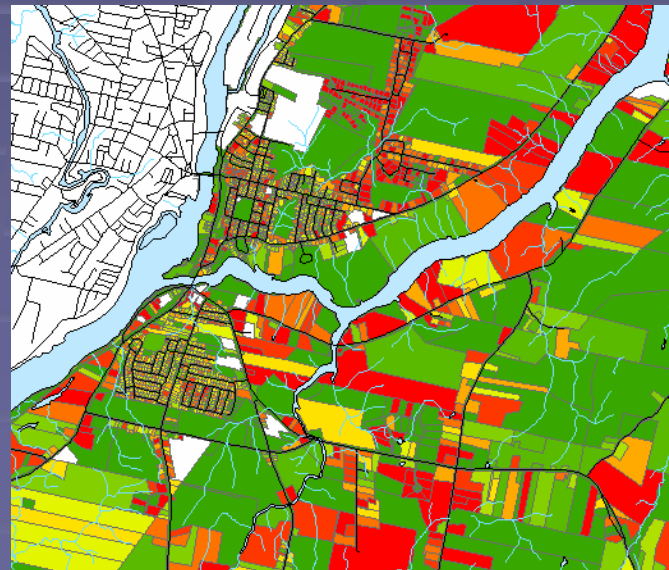
Elevation



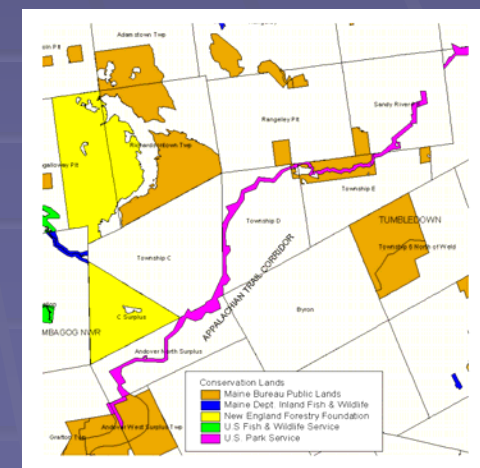
Counties



Digital orthophoto



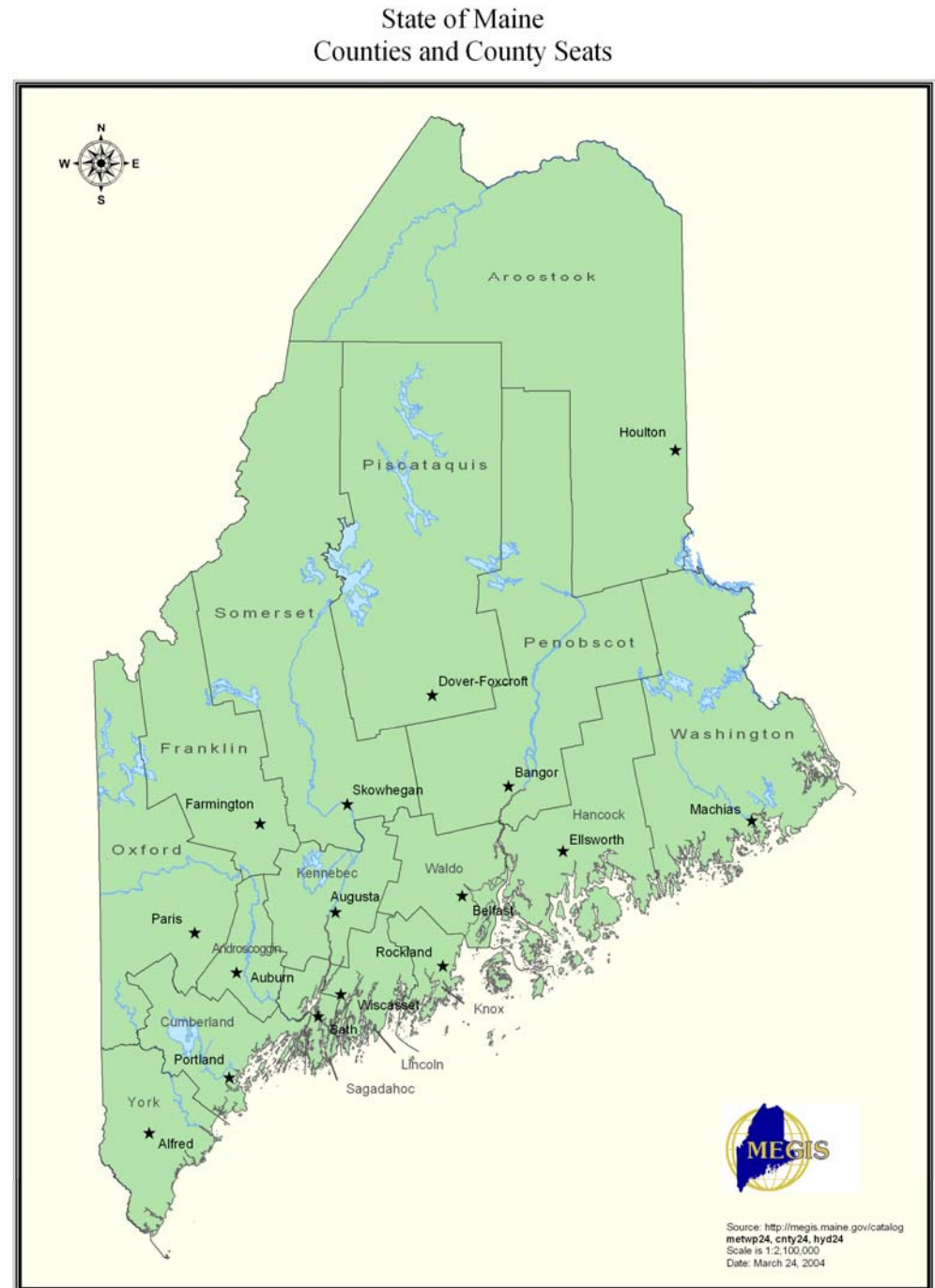
Building values



Conservation lands

Today's Presentation

- Grant to Develop County GIS Strategic Plan
- What are Geographic Information Systems - GIS?
- Grant – Status and Next Steps



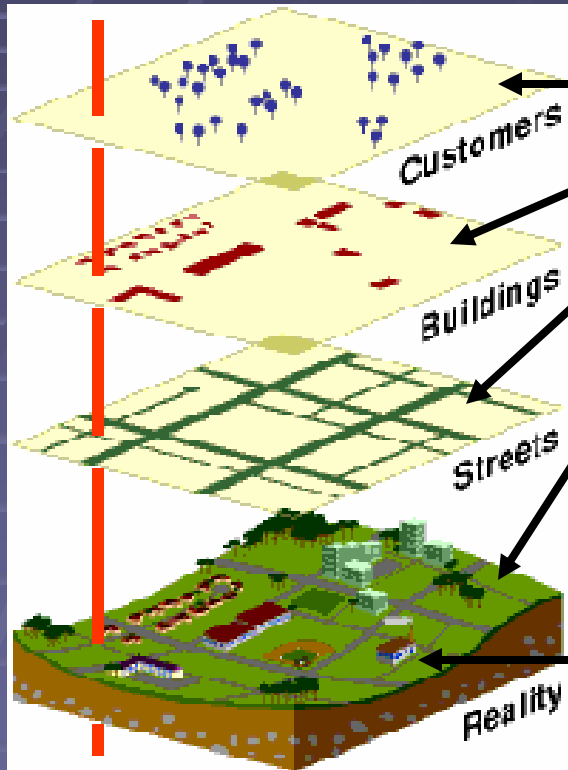
Federal Grant

- \$30,000 including cash and in-kind match
- Develop GIS Strategic Plan for counties
 - To improve existing services that involve maps
 - To develop new services to assist towns with GIS
- Study funding options
 - To fund county operations
 - To fund basic services provided by GeoLibrary that will support county operations and services

Potential Collaborations

- Maine Library of Geographic Information
 - Grant program
 - Orthophotos
- National Association of Counties
- State agencies including Maine Emergency Management Agency
- Emergency Services Communication Bureau – E911
- Maine State Police
- Department of Homeland Security

What is GIS?



Digital maps in real world coordinates
(latitude, longitude)

Database for each mapped feature
e.g. parcel of land

- # acres
- year built
- building value
- land value
- # stories
- land use

Point to map to
show database for
the identified
feature

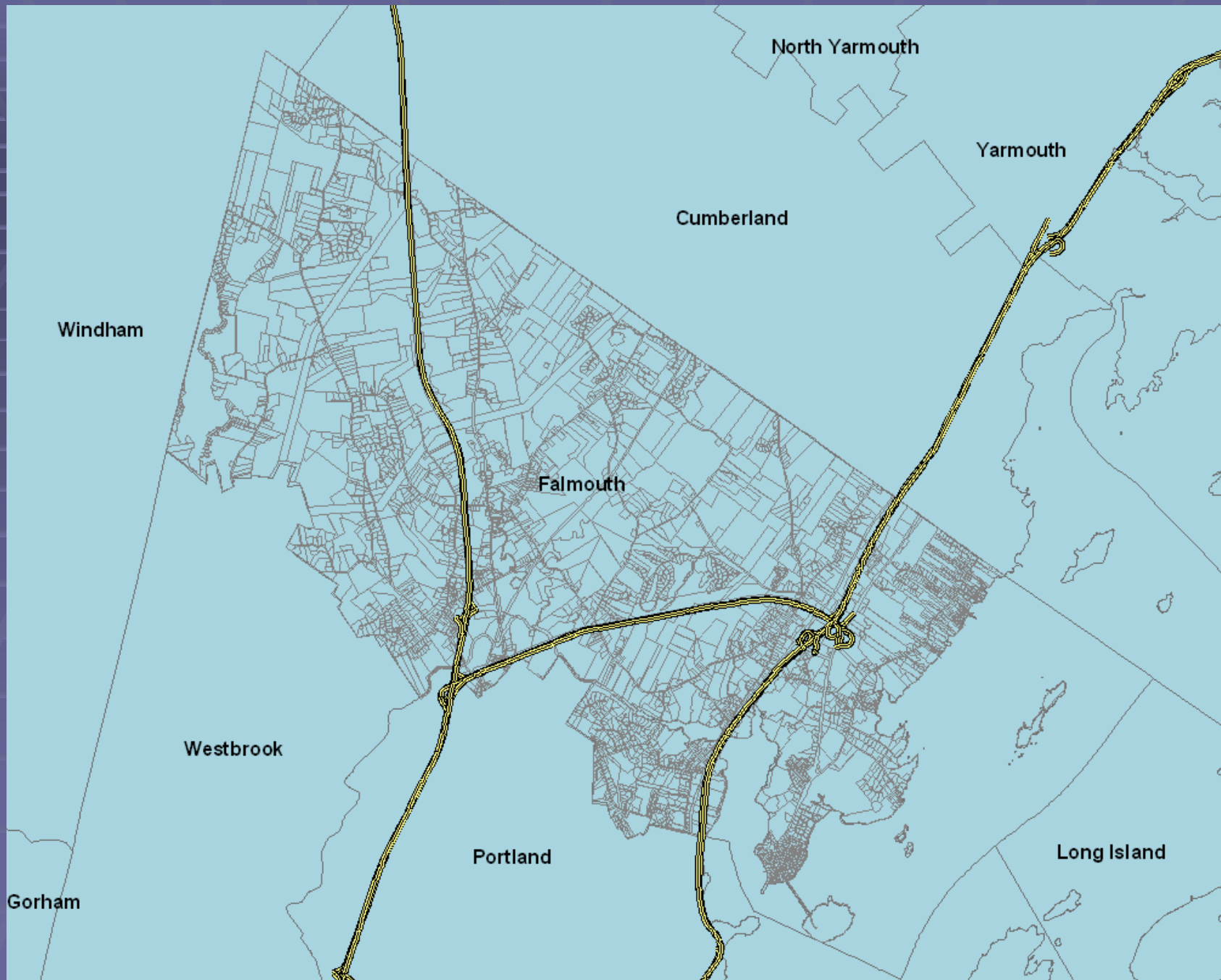
Query database to
select features
from the map

Economic Development

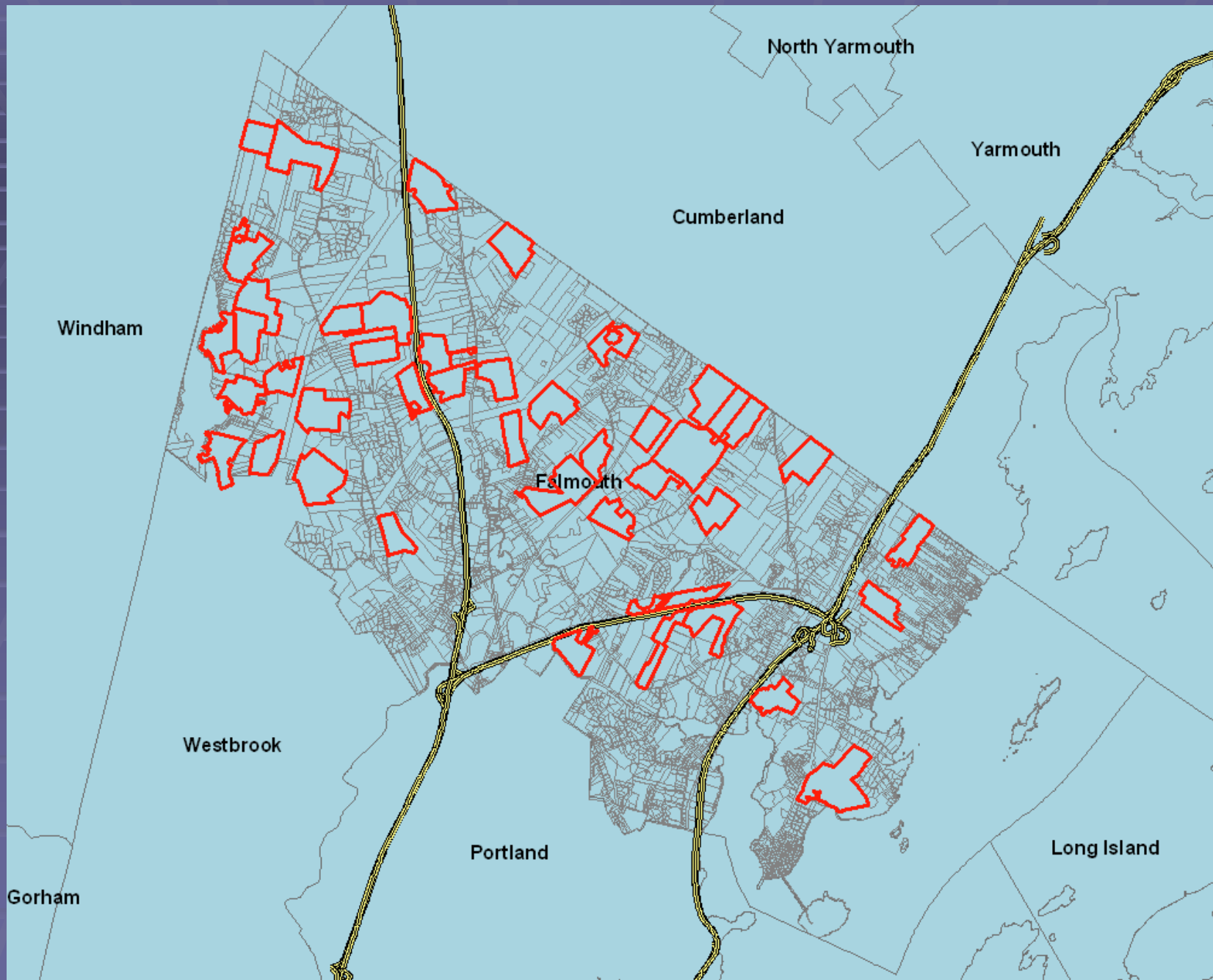
Demonstration

Site Selection with GIS

Zoom to Falmouth and Display Property Lines



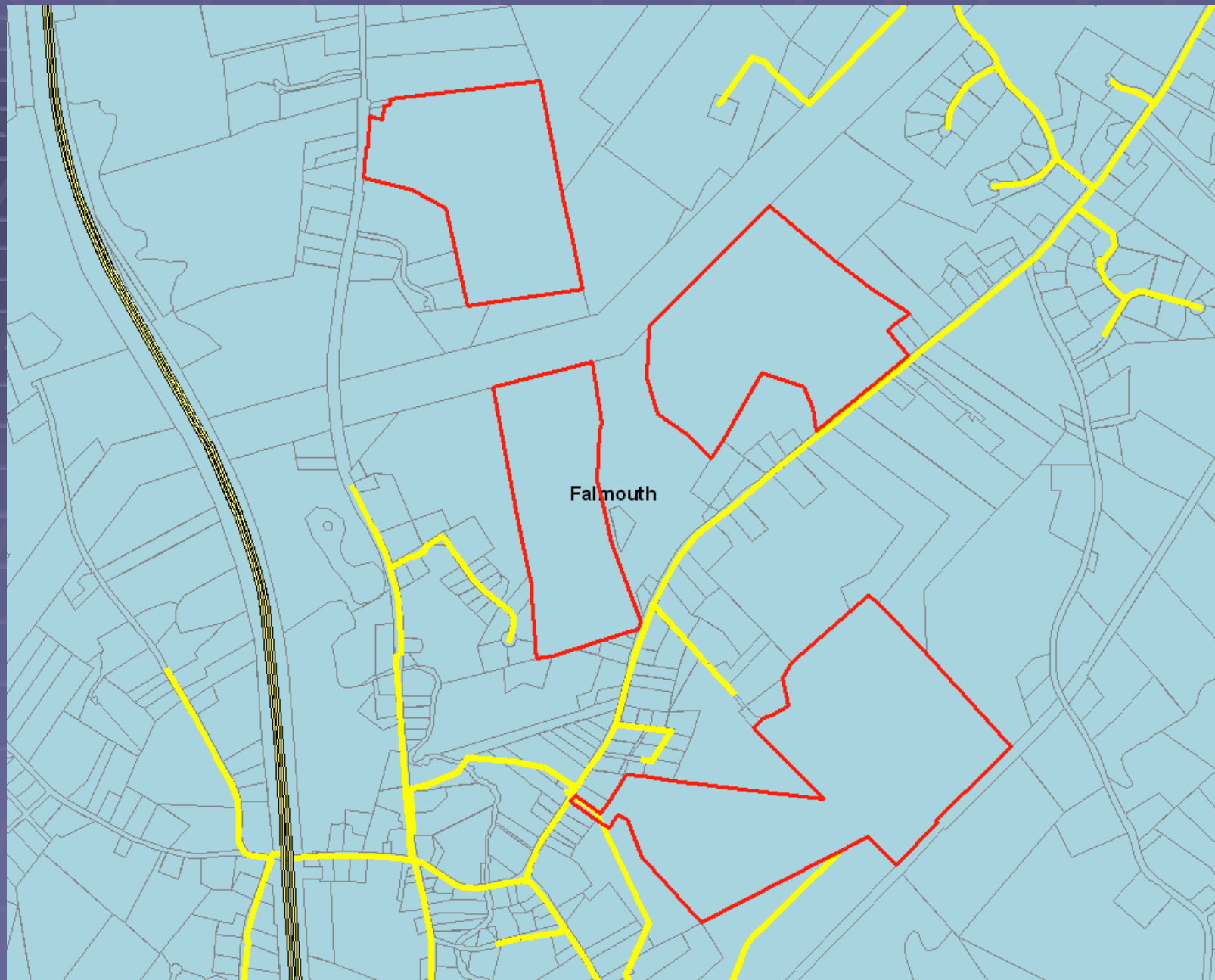
Parcels greater than 50 acres



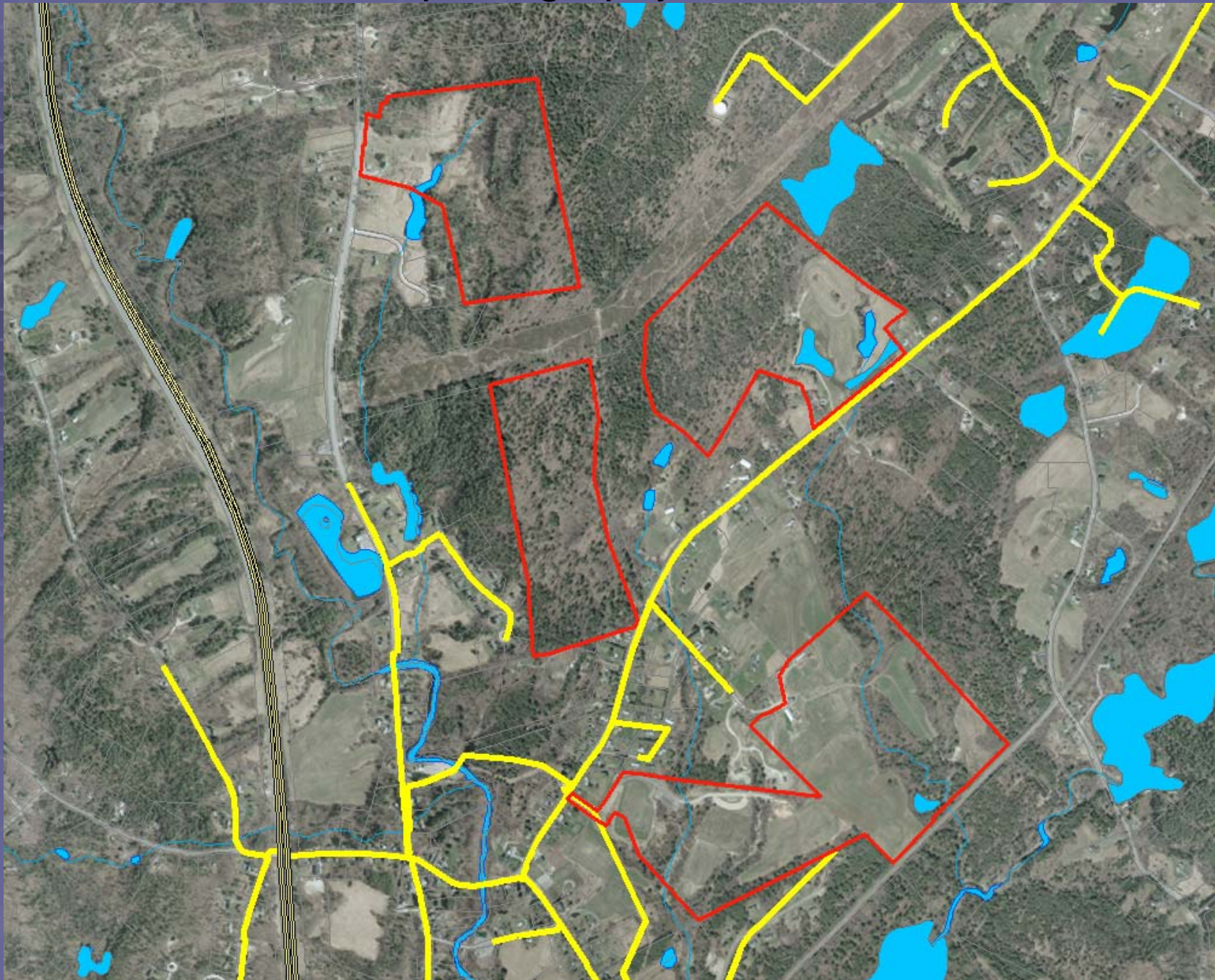
Parcels greater than 50 acres within 1/3 mile of a water main



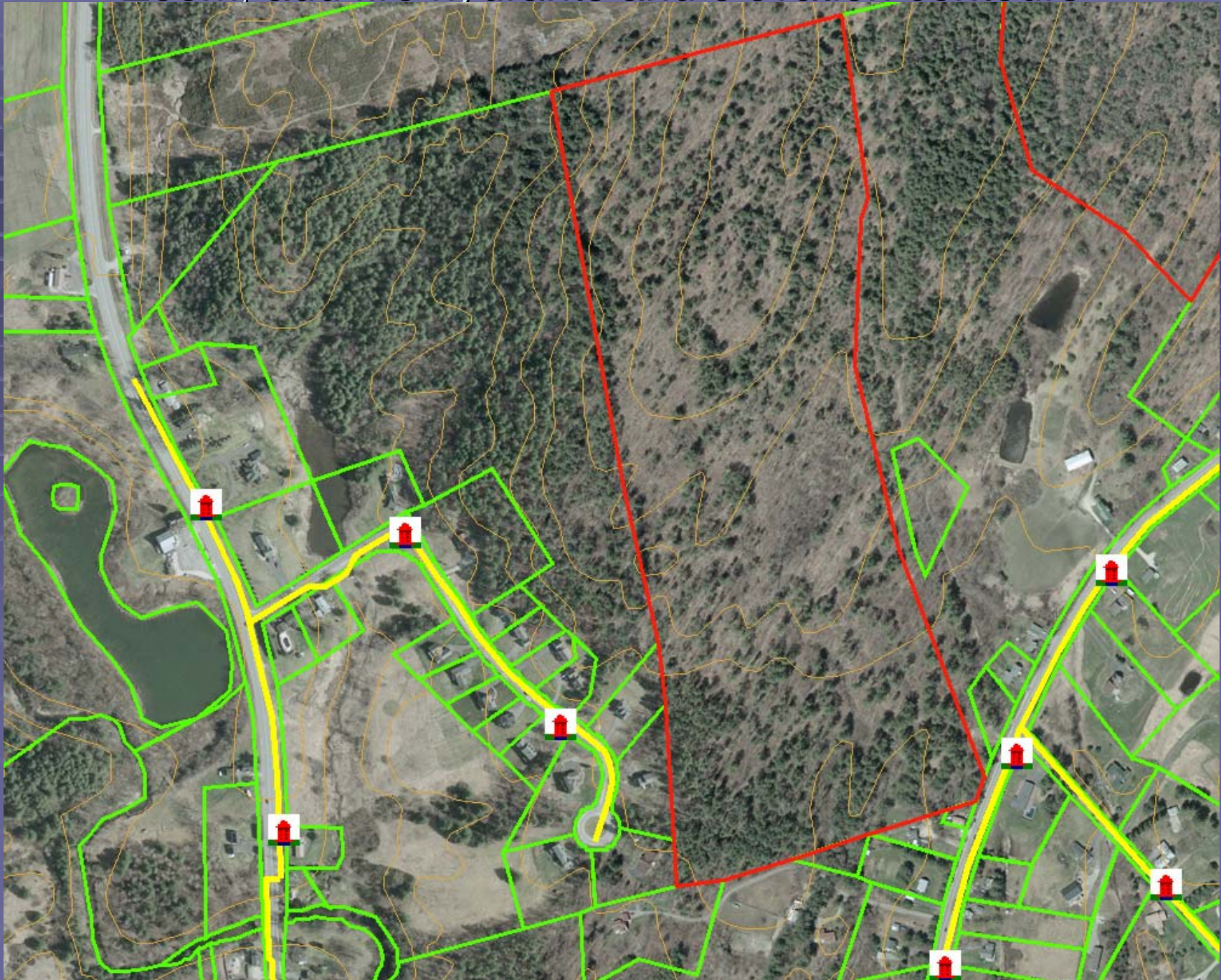
Parcels greater than 50 acres within 1/3 mile of water main and
within 1 mile of I-495



Zoom, add orthophotography and water restrictions



Zoom, add fire hydrants and elevation contours



Close look at apparent road frontage



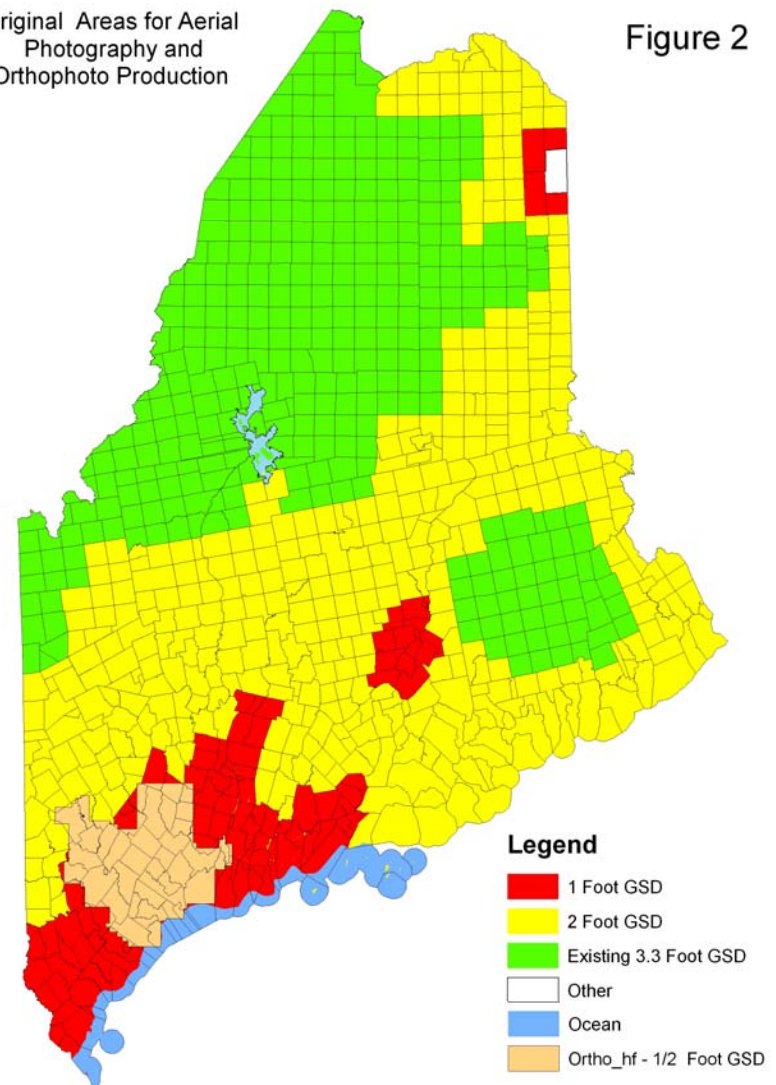
Statewide Projects

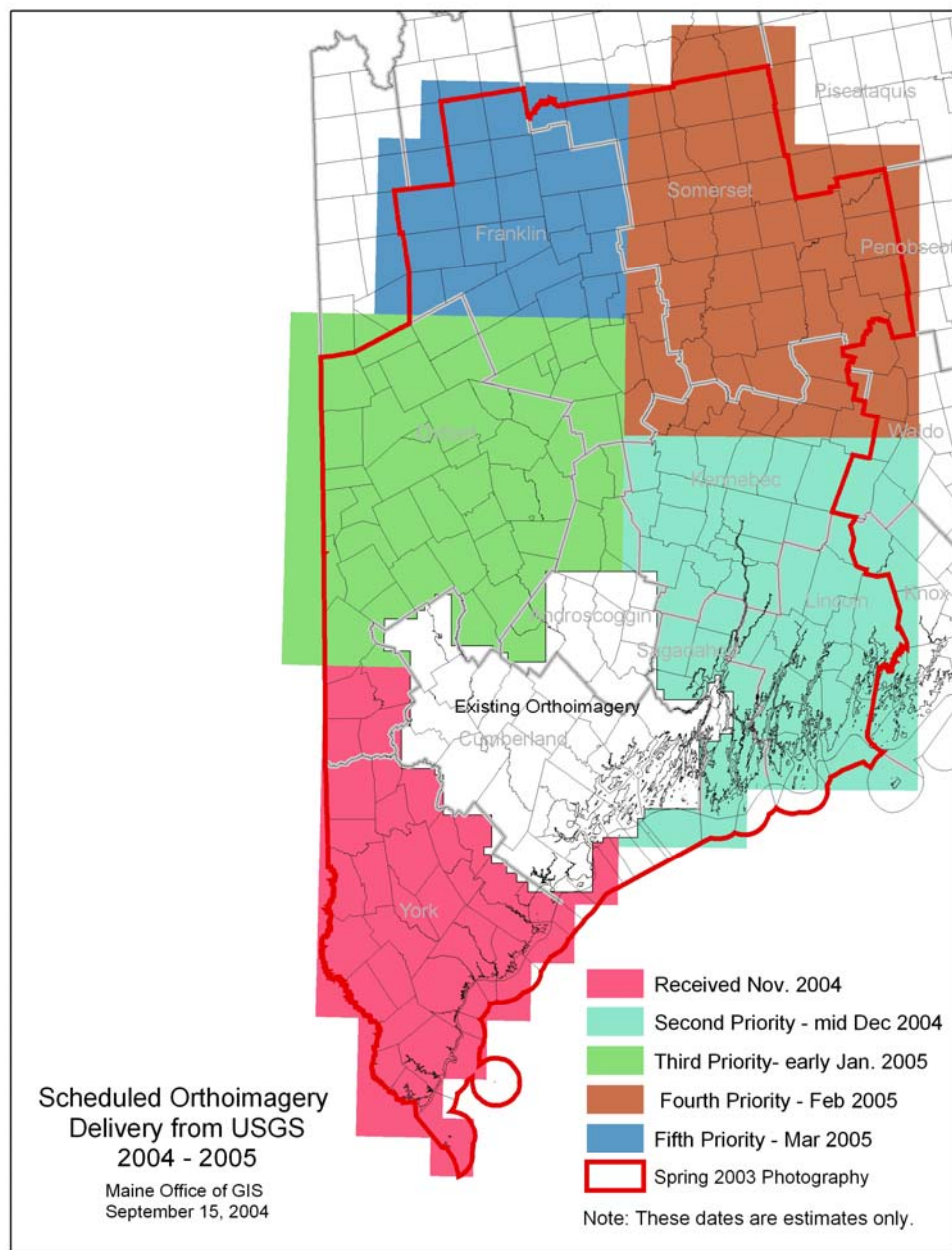
Orthoimagery

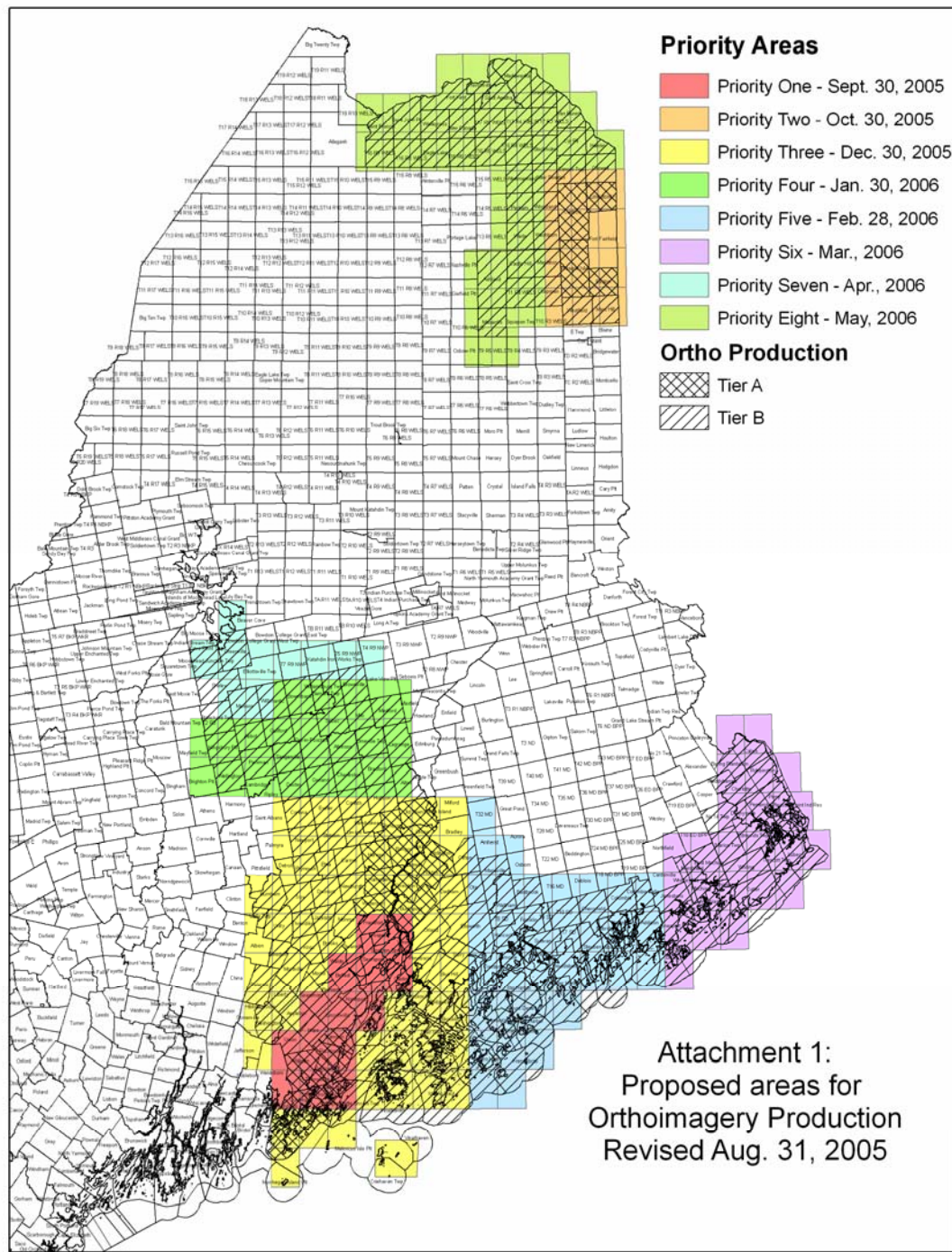


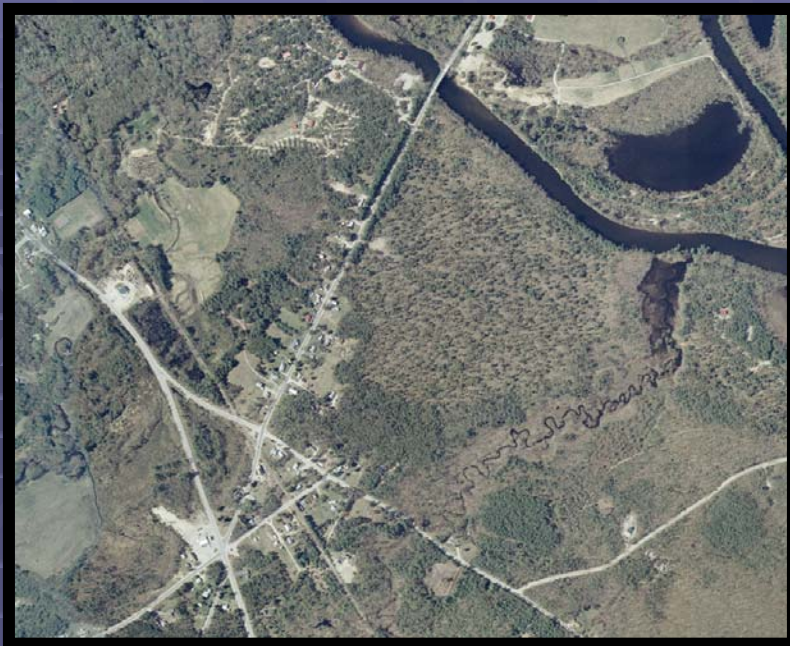
Original Areas for Aerial
Photography and
Orthophoto Production

Figure 2









Brownfield

Kittery





Augusta





Boothbay Harbor



Phippsburg

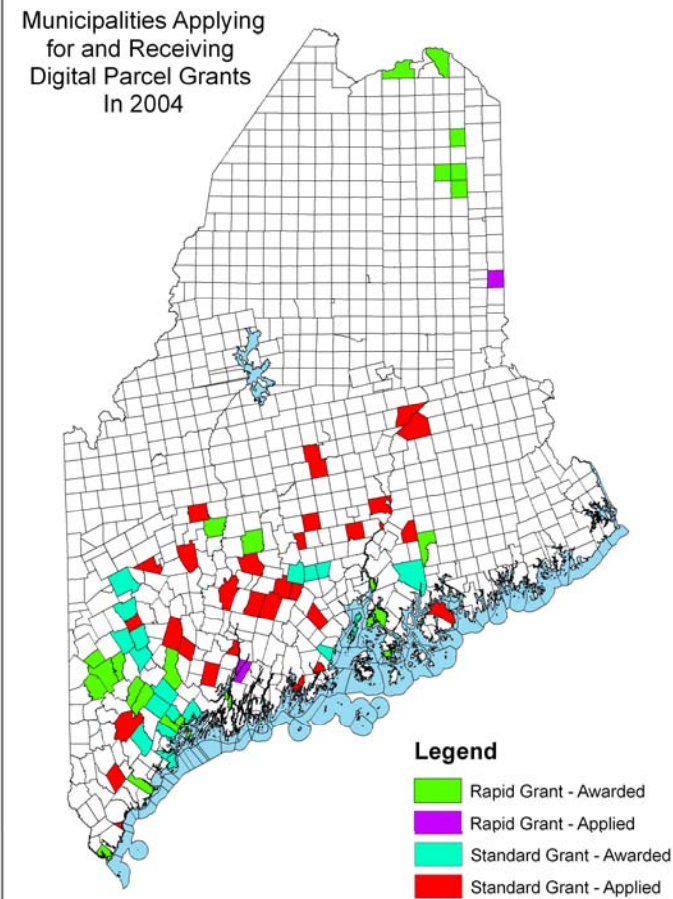




Municipal Grant Program

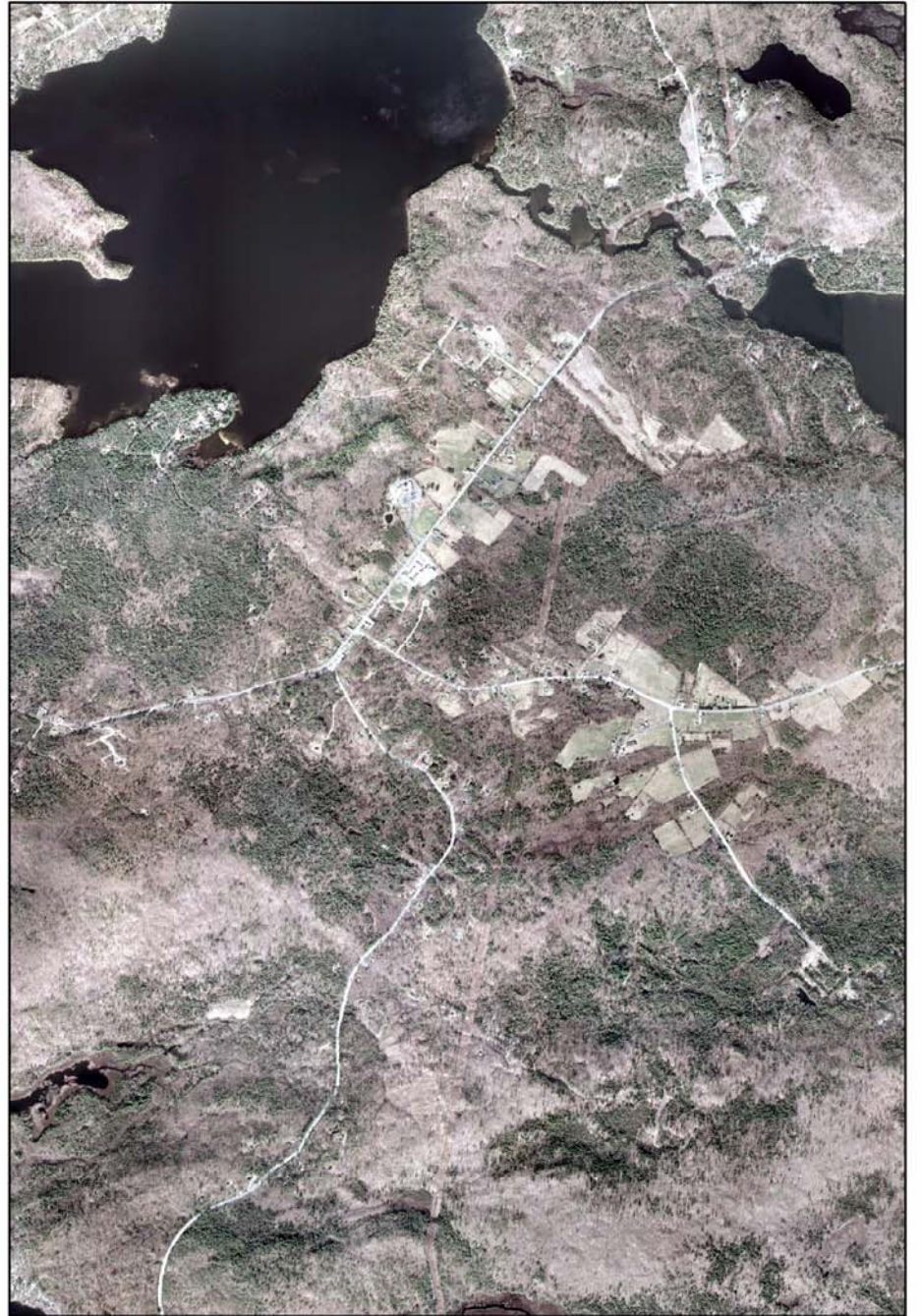
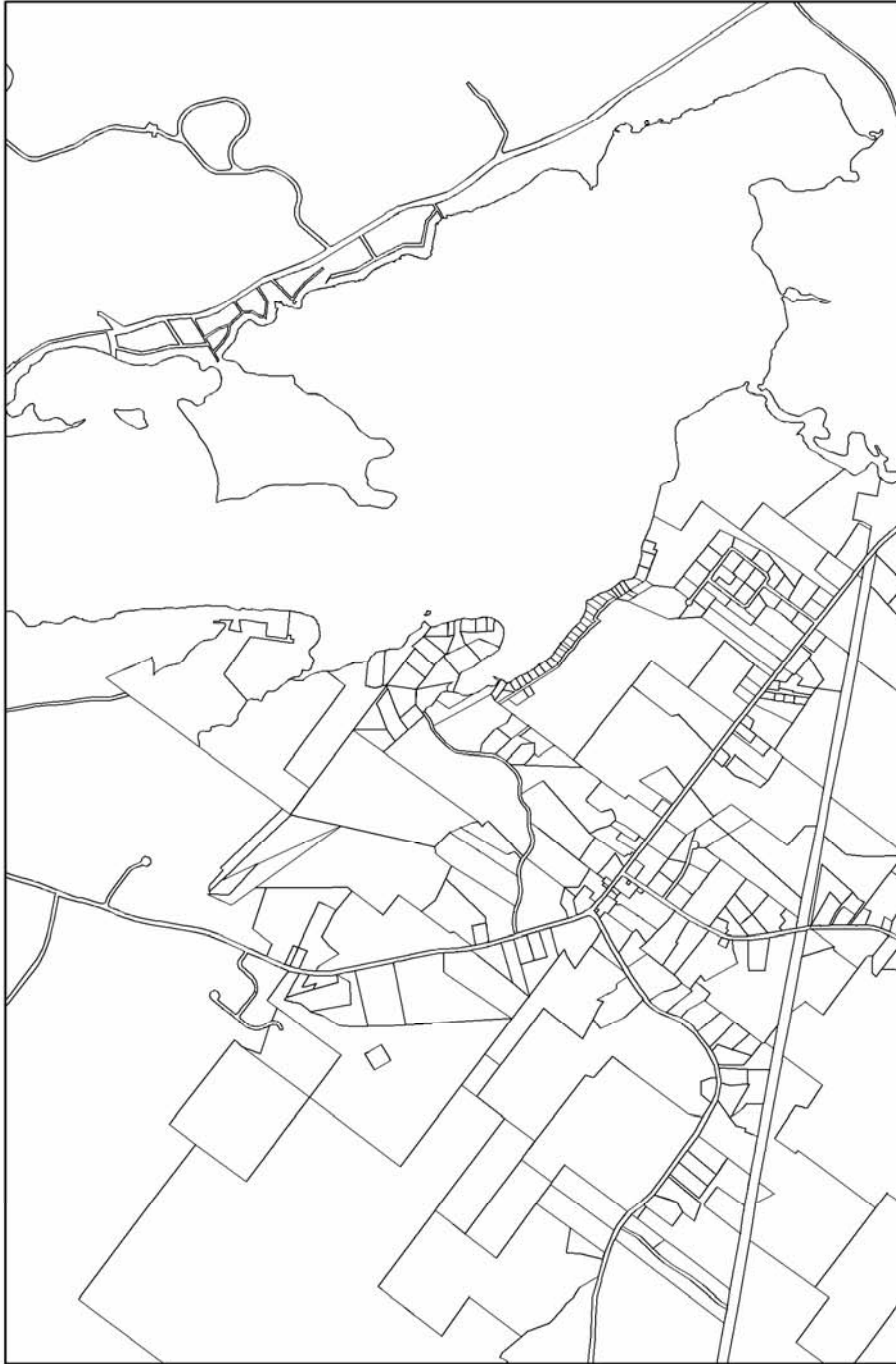
Digitizing Property Maps

- Standards for digital parcel files
- \$350,000 available for two grant periods: \$175,000 in both May & November
- 78 applications received in first round
 - 27 for rapid development grants
 - 51 for standard development grants
 - 48 grants awarded



Digitizing and Updating Town Parcel Maps

- New Orthoimagery
- Standards













Maine County GIS Study

Status and Update

Information Forums

- Forum: June 10, Southern Maine
 - USM Gorham Campus
 - York, Cumberland, Oxford, Sagadahoc, Lincoln, Androscoggin, Knox, Kennebec
 -
- Forum: July 28, Northern Maine
 - Black Bear Inn, Orono
 - Aroostook, Somerset, Franklin, Piscataquis, Penobscot, Washington, Hancock, Waldo

Information Forums

- Covered Needs, Requirements and Capabilities of County Officials:
 - Commissioners
 - Sheriffs/Deputies
 - Registers of Deeds
 - EMA Directors
 - Facilities Managers
 - Communication Directors

Lessons from Initial Forums

- Some municipalities and a few counties have implemented GIS
- Many more do not have GIS, but are trying to figure out how to implement the technology with limited resources
- EMA and Sheriff most likely to be currently using GIS
- Plenty of GIS data is available
- The major roadblock to using existing information is lack of staff and training to use and coordinate this technology
- Poor prospects for future funding for GIS from traditional sources
- Skepticism of relying on Regional Planning Agencies

Lessons from Initial Forums

- Identified Application Areas
 - Evacuation planning
 - Hazardous materials tracking
 - Critical infrastructure mapping/tracking
 - Land use code compliance
 - Traffic safety analysis and planning
 - public safety
 - E911 and addressing
 - Public health
 - Extend Registry of Deeds services to include access to existing GIS data with deed search
 - County provides GIS services to communities

Opportunities for Collaboration to Build and Fund County GIS

- **Coordinate with state agencies to take advantage of existing GIS services**
- **Leverage existing county functions having “in roads” to federal funds (e.g. EMA/Homeland Security)**
- **County operates integrated GIS to serve county programs**
- **County operates GIS to facilitate town access to GIS services for a fee**
- **Expert town within a county supports county GIS needs**
- **County charges for extended registry services built on GIS**
- **State and federal grants for one-time cost of purchasing hardware and software**
- **Grants from GeoLibrary and other sources to build GIS layers (e.g., parcel maps)**

Information Forums (planned)

- Commissioners
 - Group meeting covering administrative issues, opportunities and frictions to implementing technology
- EMA / Sheriffs
 - Group meeting to cover technology transfer, current /ongoing initiatives and future funding opportunities

We need to collect more detailed information

- Data
 - **Layers**
 - **Attributes**
- Applications
 - **Web-based tools**
 - **Desktop software based tools**
- Technology
 - **Software**
 - **Web access**
 - **Equipment**
- People
 - **Our own staff?**
 - **Help from other organizations?**
 - **Councils of Government, Regional Planning Commissions**
 - **ME-GIS/GeoLibrary: “Regional Service Centers”**
 - **Communities within the county**